ZUBIN, A.M., kand.biolog.nauk; LAZAREVA, Ye.P., mladshiy nauchnyy sotrudnik;

MAKAROVA, S.V., laborant

Developing a method for the microscopic control of the impregnation of pult tissues. Nauch.issl.trudy NIIMP no.11:80-90 '62.

(Fur—Dressing and dyeing) (Resins synthetic)

(Fluorescence microscopy)

MAKAROVA, S.V.; ALIMARIN, I.P. Extraction of fluotantalate with basic dyes. Report No.3:Composition of fluotantalate compounds with triphenylmethane dyes. Zhur. anal. khim. 19 no.7:847-850 '64. 1. Moscow State University. (MIRA 17:11) APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500030-6

Separation of small ...

S/075/62/017/009/003/006 E071/E436

carried out at a ratio of tantalum to nichium of 1:100.
Tantalum can be re-extracted from the organic phase by a single shaking with a 2% solution of (NH4)2C2O4. The method can also be used for the separation of tantalum from zirconium and titanium. There are 4 figures and 3 tables.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im.
M.V.Lomonosova (Moscow State University imeni

SUBMITTED: May 23, 1962

Card 2/2

5/075/62/017/009/003/006 E071/E436

Alimarin, I.P., Makarova, S.V.

Separation of small amounts of tantalum from niobium AUTHORS: TITLE:

by the extraction of tetraphenylarsonium fluoro-

tantalate

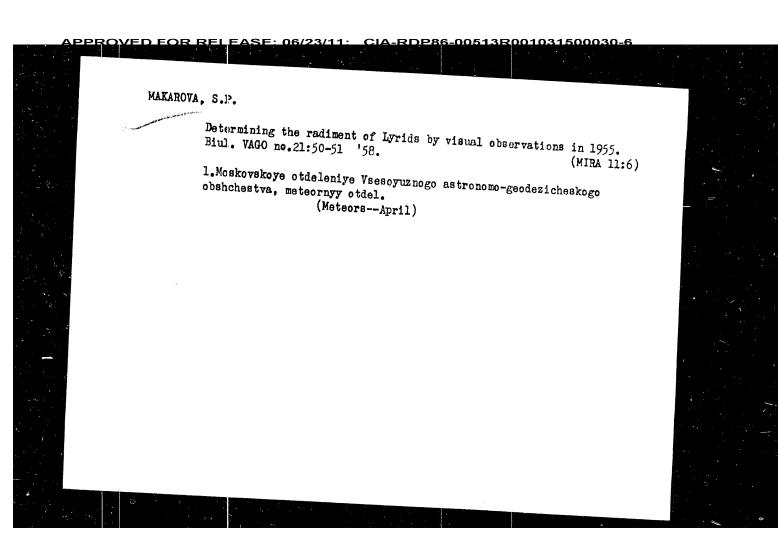
PERIODICAL: Zhurnal analiticheskoy khimii, v.17, no.9, 1962,

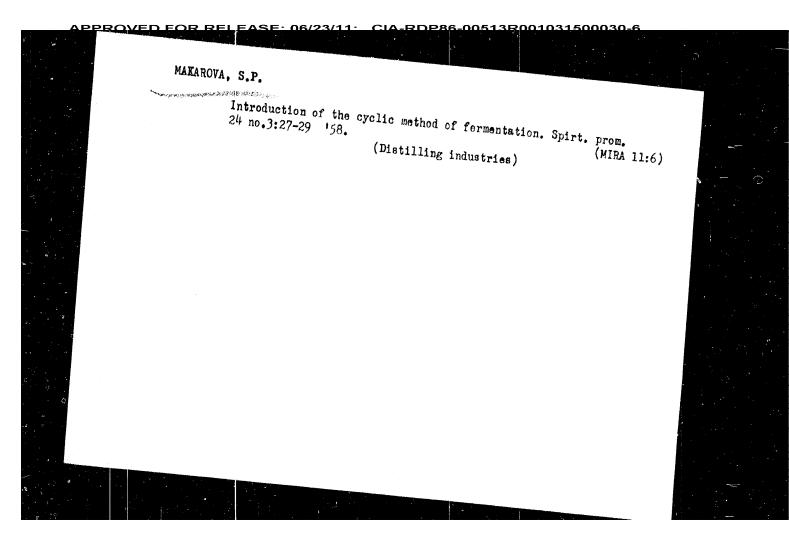
1072-1075

The use of tetraphenylarsonium chloride for separating small quantities of tantalum from niobium, titanium and zirconium is described. The efficiency of extraction was controlled using radioactive isotopes of 182Ta, 95Nb and 95Zr. The dependence of the degree of extraction of tantalum with chloroform on the concentration of tetraphenylarsonium chloride, sodium fluoride and acidity of the solution was investigated. It was established that tantalum can be quantitatively extracted (98 to 100%), with an excess of the reagent within a wide range of acidity in sulphuric as well as hydrochloric acid. insignificant extraction of niobium takes place only from The separation can be successfully sulphuric acid solutions. Card 1/2

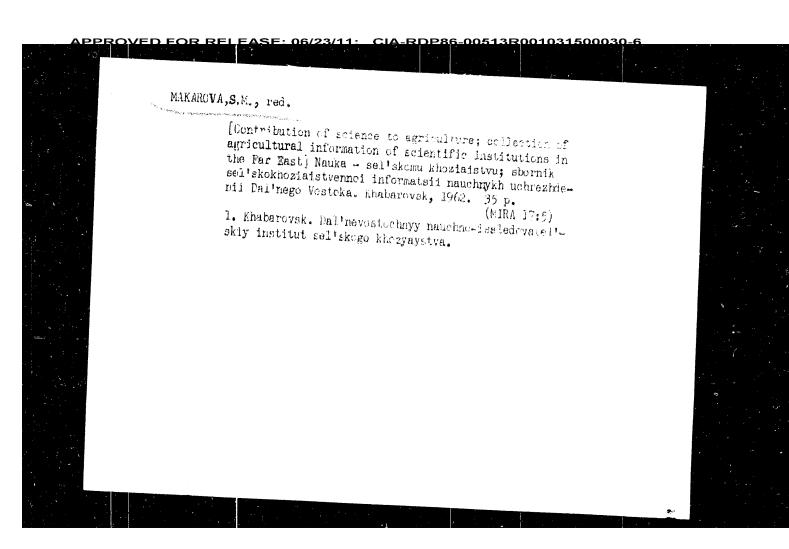
MAKAROVA, S.P. Catalog of 21 cm. line profiles. Astron. where Al no.4:608-618 (MIRA 17:8) 1. Gosudarstvannyy astronomicheskiy institut im. P.K.Shternberga. MAKAROVA, S.P. Venus in 1956. Biul. VAGO no. 23:46-50 '58. (MIRA 11:11) 1. Moskovskove otdeleniye Vsesoyuznogo astronomo-geodezicheskogo obshchestva, planetnyy otdel.

(Venus (Planet))





VERTMAN, A.A.; MAKAROVA, S.N. Adiubatic calorimeter for determining the heat capcity of nelts. Zav. lab. 30 no.9:1151-1152 '64. (MIRA 18:3) 1. Institut metallurgii imeni Baykova.



MAKAROVA, S. M. (Assist. Prof) "Forced Oscillations of the Foundation of a Crank case-Connecting Rod Mechanism." report presented at the 13th Scientific Technical Conference of the Kuybyshev Aviation Institute, March 1959. MARMOVA, S. H.

Opyt povysheniya urozhsynosti zernovykh kul'tur v nechernozemnoy polose (Experience in increasing grain crop productivity in the nonchernozem nore) Noskva, Islatel'stvo "Znanie", 1953. 29 p. man, tables.

SO: N/5
723
1823

MAKAROVA, S.I.; ZOZ, N.N. Induced system mutations in wheat. Genetika no.2:113-118 Ag *65. (MIRA 18:10) I. Institute of Chemical Physics, Academy of Sciences of the $U_\bullet S_\bullet S_\bullet R_\bullet$, Moscow.

ZOZ, N.N.; KOLOTENKOV, P.V.; MAKAROVA, S.I. Pea mutations induced by ethylenimine and its derivatives in the third generation. Dokl. AN SSSR 164 no.5:1159-1160 0 65. (MIRA 18:10) 1. Institut khimicheskoy fiziki AN SESR. Submitted December 28, 1964.

ZOZ, A.N.; MAKAROVA, S.I.; KOLOTENEOV, P.V.; SAL'NIKOVA, T.V.; KOZHENOVA, M.N.;
GRIGOROVA, N.V.

Shest initations induced by chemical sutagens. Dokl. AN SSSR 163 no.1:
(SHR 18:7)

1. Institut khimicheskoy fiziki AN SSSR, Submitted December 28,
1964.

ZOZ, N.N.; MAKAROVA, S.I. Inheritable changes in winter wheat induced by chemical mutagens. Biul. MOIP. Otd. biol. 70 no.2:124-125 Mr-Ap 165. (MIRA 18:5) 165.

<u> APPROVED FOR RELEASE: 06/23/11:__CIA-RDP86-00513R001031500030-6</u> ZOZ, N.N.; MAKAROVA, S.I. Sykological analysis of the mutagenic action of nitrosectory. urea and nitrosectorylurea. TSitologica 7 no.3:405-408 My-Je 165. (MIRA 18:10) 1. Otdel khimicheskikh i biologicheskikh protsessov Institute khimicheskoy flaiki AN 333R, Moskva.

ZOZ, N.N.; KOLOTENKOV, F.V.; MAKAROVA, S.I.

Mutations in peus induced by ethylenimine and its derivatives.
Dokl. AN SSSR 159 no.6:1397-1398 D '64, (MIRA 18:1)

1. Institut khimicheskoy fiziki AN SSSR. Predstavlene akademikom
N.V. TSitsynym.

ZOZ, N.N.; MAKAROVA. S.I.; KOLOTENKOV, P.V.; SAL'NIKOVA, T.V.; KOZHANOVA, N.N.; GRIGOROVA, N.V.

Variation in wheat, induced by chemical mutagens, in the first generation after treatment. Dokl. AN SSSR 159 no.4:915-917

D '64

1. Institut khimicheskoy fiziki AN SSSR. Fredstavleno akademikom N.V. TSitsinym.

MAKAROVA, S.I.

Hereditary changes in winter wheat induced by gamma irradiation.
Radiobiologia 4 no.6:924-926 '64. (MIRA 18:7)

1. Institut khimicheskoy fiziki AN SSSR, Moskva.

FOPOV, V.I.; MAKAROVA, S.D.; STANKEVICH, Yu.V.; FILIPPOV, A.A.

[Handbook on the determination of sedimentary facies complexes and the methods of facies-paleogeographic mapping.] Rukovodstvo po poredeleniiu osadochnykh fatsial'nykh kompleksov i metodika fatsial'no-paleogeograficheskogo kartorovaniia. Leningrad, Gostoptskizdat, 1963. 713 p. (Tashkent. Universitet. Problemmaia laboratoriia osadochnykh formatsii i osadochnykh rud. Trudy, no.2).

(MIRA 18:7)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500030-6 POPOV, V.T.; MAKAROVA, S.D.; YURKOVA, Ye.M.; BABADAGLY, V.A. Facies-paleogeographical maps of Paleogene formations in the South Tajik Depression. Nauch. trudy TashGU no.25% Geol. nauki no.22: 52-55 164 (MIRA 18:2) 52-55 164

MAKAROVA, S.D. Using a locator for sedimentary facies complexes and the methods for facies-paleogeographical mapping in studying Cretaceous formations in the middle reaches of the Zeravshan River. Nauch. trudy TashGU no.256 Geol. nauki no.22:21-24 '64 (MIRA 18:2)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500030-6

Seismotectonics of Central Asia (Cont.)

15-57-5-6042

focus earthquakes produce an accumulation of tensions which are reflected in the seismic shocks; the foci of the latter are not very deep. Young mountain systems are characterized by different degrees of seismic activity and different depths of earthquake foci. This indicates that their roots have different structure and depth. Surface earthquakes, with depth of focus from 0 to 10 km, are concentrated mainly in districts of large tectonic depressions and piedmonts, and apparently originate at the juncture of Paleozoic and Mesozoic deposits, but also in the layers of Mesozoic and Cenozoic deposits. In this connection it is noted that the unbroken surface of the discontinuity pointed out by Ye. A. Rozovaya for Central Asia at a depth of 0 to 10 km does not really exist.

Card 3/3

P. N. K.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500030-6

15-57-5-6042

Seismotectonics of Central Asia (Cont.)

35 \pm 10, 50 \pm 10, 100 \pm 20, 200 \pm 20, 300 \pm 20 (data by Ye. A. Rozovayá and N. Á. Linden), and also a chart of the seismic zones in Central Asia. These zones are characterized by different maximum depths of earthquake foci. There are two seismographic cross sections which show the increase of maximum depth of foci as we proceed from the northern zones to the more southerly ones. Using data on earthquakes from the northwestern Himalayas and the Indian platform, where the depths decrease again as we approach the earthquake-free zone of the central part of this platform, the author produced a schematic meridional cross section of the Pamir syntaxis. This cross section forms a curve coming to the earth's surface in the north, in the southern part of Kazakhstan and in the southern plains of India. At Pamir the curve makes the greatest dip (to a depth of 300 km) and forms the lower border of that part of the earth's crust which corresponds to the seismic area of the Pamir syntaxis. In Central Asia we distinguish five seismic belts (from the south to the north) varying as to earthquake depth (in km): 1) from 0 to 300 ± 20; 2) from 0 to 200 ± 20; 3) from 0 to 100 ± 20; 4) from 0 to 50 ± 10; 5) from 0 to 35 ± 10. It is assumed that deep-Card 2/3

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 5, 15-57-5-6042

p 49 (USSR)

AUTHOR:

Makarova, S. D.

Seismotectonics of Central Asia (O nekotorykh voprosakh TITLE: seysmotektoniki Sredney Azii)

PERIODICAL: Zap. Uzbekist. otd. Vses. mineralog. o-va, 1955, Nr 7,

ABSTRACT:

Central Asia is divided into two areas -- the earthquakefree plains in the northwest, and the seismic area of the southeast. Within the limits of the latter we distinguish 12 young mountain systems (Pamir, Turkestan, the Alay system, and Tyan-Shan with the elevated areas adjacent to it). The article contains a map illustrating the relation of the epicenters of shallow earthquakes (depth of focus, 0 to 10 km) to the spread

of Mesozoic and Cenozoic deposits. Farther on there is also a series of maps indicating the epicenter distri-

Card 1/3 bution of earthquakes with depths of foci (in km): ACC NR. AF7003121

degree of swelling of the anion-exchange resins was determined by the structure of the bridge-forming component, with substantially greater swelling observed among anion-exchange resins produced on the basis of the styrene-divinyl copolymer. The rate of exchange of ions from salt solutions was found to be determined by the manuromolecular structure of the anion-exchange resin. For styrene-divinyl polymers, ion-exchange equilibrium was established within 15 minutes, whereas the styrene-divinylbenzene anion-exchange resins were less suitable for ohromatographic purposes, establishment of ion-exchange equilibrium requiring five to 20 hours. The exchange capacity varied little within the pH range 3-8. Orig. art. has: 3 figures and 3 tables. [JFRS: 38,970]

SUB CODE: 07 / SUIN DATE: 20Jul64 / ORIG REF: 005 / OTH REF: 007

SOURCE CODE: UR/0080/66/039/008/1754/1760 EWI(m) L 10394-67 ACC NR: AP7003121 AUTHOR: Trostyanskaya, Ye. B.; Makarova, S. B. ORG: All-Union Scientific Research Institute of Chemical Reagents and Especially Pure Chemical Substances (Vsesoyuznyy nauchno-issledovatel skly inst) tut khimicheskikh reaktivov i osobo chistykh khimicheskikh veshchesty) TITIE: Anion-exchange resins belonging to the class of onium compounds SOURCE: Zhurnal prikladnov khimii, v. 39, no. 8, 1966, 1754-1760 TOPIC TAGS: anion exchange resin, chromatography, copolymer, styrene, vinyl compound ABSTRACT: Chromatographic separation of ions from salt solutions requires that the ion-exchange resin possess multifunctionality, a high degree of ionization in a broad range of pH values, and a high rate of establishment of equilibrium in the exchange reaction with ions of the solution. Copolymers of styrene with divinylbenzene and styrene with divinyl with various amounts of the bridge-'forming component in the copolymer, were used to synthesize anion-exchange resins for a study of the influence of structure of the macromolecules upon the resins for a study of who introduced of the resins. The copolymers were chloromethylated, and then the chlorine atom replaced by amines, phosphines, or sulfides. Anionexchange resins with sulfonium and phosphonium structural groups were readily decomposed in solutions of alkali; anion-exchange resins tested with ammonium functional groups acquired the structure of bases, the degree of association of which was determined by the structure of the radicals on the quaternary nitrogen. The thermal stability of the anion-exchange resins in the salt form decreased in the series ammonium > phosphonium > sulfonium compounds. The 207 Card 1/2

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500030-6

L 08456-67

ACC NR: AP6030900

nium compounds readily decompose in alkaline solutions. The thermal stability of anion exchangers in the salt form decreases in the order ammonium > phosphonium > sulfonium compounds. The degree of swelling of the exchangers is determined by the structure of the bridge-forming component, and the rate of the ion exchange reaction in salt solutions is determined by the macromolecular structure of the anion exchanger. Orig. art. has: 3 figures and 3 tables.

SUB CODE: 07/ SUE4 DATE: 20 Jul64/ ORIG REF: 005/ OTH REF: 007

Card 2/2 ly/L

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500030-6

L 08456-67 EWT(m) DS/RM

ACC NR: AP6030900 (A N) SOURCE CODE: UR/0080/66/039/008/1754/1760

AUTHOR: Trostyanskaya, Ye. B.; Makarova, S. B.

ORG: All-Union Scientific Research Institute of Chemical Reagents and High-Purity Substances (Vsesoyumyy nauchno-issledovatel'skiy institut khimicheskikh reaktivov i osobo chistykh khimicheskikh veshchestv)

TITIE: Anion exchangers belonging to the class of onium compounds

SOURCE: Zhurnal prikladnoy khimii, v. 39, no. 8, 1966, 1754-1760

TOPIC TAGS: anion exchange resin, ammonium compound, organic sulfur compound, organic phosphorus compound

ABSTRACT: In order to determine the influence of the structure of macromolecules of anion exchangers on their ion-exchanging properties, in synthesizing the exchangers use was made of styrene-divinylbenzene (SD) and styrene-bivinyl (SB) copolymers containing various amounts of the bridge-forming component in the cepolymr. The copolymers were chloromethylated, then the chlorine atom was replaced by amine, phosphines or sulfides, producing ammonium, phosphonium and sulfonium compounds. Potentiometric titration curves of the polymeric ammonium compounds studied were recorded, and from them the apparent dissociation constants were determined. The ammonium compounds have the structure of bases whose degrees of dissociation are determined by the structure of the radicals attached to the quaternary nitrogen atom. The sulfonium and phospho-

Card 1/2

UDC: 661.183.123

TROSTYANSKAYA, Ye.B.; LOSEV, I.P. [deceased]; MAKAROVA, S.B. Synthesis of polymeric insoluble sulfonium compounds. Wysokom. soed. 5 no.12:1824-1828 D 63. (MIRA 1 (MIRA 17:1) l. Moskovskiy khimiko-tekhnologicheskiy institut im. D.I. Mendeleyeva i Vsesoyuznyy nauchno-issledovatel skiy institut khimicheskikh reaktivov i osobo chistykh khimicheskikh veshchestv.

APPROVED	PEOR RELEASE: 06/23/11:	CIA-RDP86-00513R0010	31500030-6	
		8/190/63/005/003/0	05/024	
	uble polymerio quaternary	B101/B186	40 A	
phane	res. The insoluble phosphoni re filters. Their adsorptive . 1:4 = 1.5 mg-equ/g. There a	power for the Cl /NO, exchang	Control of the Contro	
350 0	TATION: Mos kovskiy khimiko-te Medeleyeva (Mos dov I D: Lendeleyev)	khnologicheskiy institut im. nstitute of Chemical Technole	D. I. ogy imeni	
3 09 4	1975) July 31, 1961			•

(
— *							
O.	insoluble polyme	rjo queternar	yee.	8	/190/63/ 1101/ B 186	/005/003/ S	005/024
	IVE will, and T following values the insoluble of stituted by this						i excimitée o
Ö	exchanged anions	ì	3	0.069	I 0.405	0.65	<u>III</u> 1.2
	1 50 ² /3z	35.46	0.25	0,61	0.605	1.4	3.1
	01 /NO 1	5,0 2,9	1/59 d 0.92	2,4 2,76	0.43 2.18	2.3 1.6	5.6 · · · · · · · · · · · · · · · · · · ·
	g; 7/aE _g goo ⁿ	0.258	0.116	0,197	0,465	0,153	0.28
3	The somewhat his of easier throne	her exchange fographic se	COPESAN PATAFION	i of th From an	s phosph ions and	onium oo molutio	spounds allo ms of salt
	OREC 2/5						

S/190/63/005/005/005/024
B101/B186

FORTONICAL:

FORTONIC

TROSTYANSKAYA, Ye.B.; MAXAROVA, S.B.; TEVLINA, A.S.

Inscluble polymeric quaternary ammonium bases. Vysokom.soed. 3
no.9:1958-1363 S '61.

1. Moskovskiy khimiko-tekhnolopicheskiy institut imeni D.I.Mendeleyeva.

(Amination) (Polymers)

#86	KARDVA	\$.β	CIA-RDP86-	85 93	31500030 5 11 5 11	124 40	0
chemistry. Mo	hdunarodny simportum po makromolekulyarnoy khimii SSSR, Sakraiya 14-18 junya 1900 g.; dokiad y avtoreferay. Sakraiya II. (International Symposium on Wacromolecular Generisty Held in Moscow, June 14-18, 1960; Papers and Summaries Section III. (Moscow, Izd-vo AN SSSR, 1960) 469 p. 55,000 copies printed. h. Ed.: P. S. Kashina. Chamistory. Commission on Macromolecular Chemistry.	meriation reactions and the synthesis of high molecular compounds. Taggar This is Section III of a multivolume work containing papers on macromolecular chemistry. The articles in the papers on macromolecular chemistry. The articles in the synthesis of polymerization reactions, the synthesis of special-purpose polymers, e.g., ion extensing reacts and the synthesis of polymers, e.g., ion extensions reactions self-onductor materials, etc., methods of cat syring polymerization reactions, properties and chemical interactions of high molecular materials, and the effects of warrous factors on polymerization and the degradation of that molecular compounds. No personalities are mentioned. Material and Alexander (Poland). Chloriustion of Station of the articles.	Mexangra, L., M. Opris, and M. Clocanel (Runnis). Symmetry and Asinopropyl Ethers of Folywing Account Symmetry and Asinopropyl Ethers of Folywing Account Symmetry of the Chemical Corners and N. M. Kokores (USSR). Symmetry of the Chemical Corners of Folywindons's and Description and Mechanism of the Asinopromis of Colymbia Systems of Tolywing and E. M. Balymoura (USSR) Chemical Interaction and Mechanism of the Asinopromis Action Angelia. I. M. A. R. Vorob'rers, G. A. Shirkkols, and M. P. Bergelle, I. M. A. R. Vorob'rers, G. A. Shirkkols, and M. P. Bergelle, (USSR). Esters of Sulturic Acid and Polywing 7, 1 (Conto).	Melköber Z./T. Holly, and G. Thured (Hungary). The Inter- action of Areantic Amines and Polyvinyl Chloride Graduath. M. A. B. E. Dayrdor B. A. Kremisal, I. M. Nus- Bancatch. E. <u>201ak</u> , W. Tropchizey and R. M. Torzenio (1833). The Production of Polymeria Materials which Emilit Semiconductor Proparties Elegan A., and L. I. Koyfas (Hungary). Chemical Properties Rabek I. I. and J. Morawice (Poland). Effect of the Struc-	mpounds on the Projecties of Anion September of the Effect of the In-Problem of the Effect of the Solutions Solutions Solutions Solutions Solutions of Some Aromatic Polymers of Some Aromatic Polymers	Active State 16. W. T. P. Lossy, A. S. Tevilla. S. B. 16. Michael G. L. B. Lossy, A. S. Tevilla. S. B. 16. Michael G. L. L. B. Lossy, A. S. Tevilla. S. B. 16. Michael G. L. L. Halen Jao (1958). Chemical Lindessa. J. (Poland). Thermal Stability of Strongly Basic Anion Exchange Resins.	
SE I BOOK EFFLOITATION	betmarodnyy simportum po makromolekulyarnoy khimiti Restra, 14-18 junya 1900 g. dokisty lavoreferat Saktalya III. (International Symposium on Macromol Chemistry Hold in Maccow, June 14-18, 1960; Fapers Sammaries) Section III. (Roccow, Izd-vo AN SSSR, 11469 p. 55,000 copies printed. b. Ed.: P. S. Kashina. Chemistry. Commission on Macromolecular Chemistry.	PREVEX: This book is intended for one meritarion reactions and the synthe compounds. COVERAGE: This is Section III of a multing papers on macromolecular dienals the general deal with the kinetics of pothe synthesis of special-purpose politic systems of special-purpose politic systems of high molecular saterial alyting polymerization reactions. We wartows factors on polymerization on Mich molecular material statements factors on polymerization on Mich molecular compounds. No person Macket, I., and J. Moznider (Poland). Responder, Pormaldente Relate (Poland).	Abenden I. / M. Opris. and A. Cioconel (Furnits). Cynnochryl and Aminopropi Ethers of Folyvinyl Alcohol Stateborich, A. Treirycory, and N. L. Kokoreys Gromen, E. I. Treirycory, and N. L. Kokoreys Stury of the Chemical Conversions of Polystarbonates Chemical Interaction and Mechanism of the Artyating of Documents of Systems of Pulcanisms of the Chemical Conversions of Polymorphysical Chemical Interaction and Mechanism of the Artyating of Documents of Systems of Volcanisms of Chemical C	MCLATER Z./T. HOLLY, and G. THUTEG (HURSTY). sation of Areaatic Amines and Polyving Chicater generath. E. B. E. Deyrdor B. A. Krentsel. generath. I. S. Polsk, A. T. Tophlyry and B. fuscs). The Production for Polymeria Materials Wasterian Community. Properties Elbert J. A. and L. I. Koyies (Hungary). Chemia Release Inc. and J. Norsayles (Poland). Effect of Release Inc. and J. Morsayles (Poland).	Thre of Organic Autho Compounds on the Properties of Anio Saidaine Retins From Polystyrene Saidaine R. M. (USS). The Problem of the Effect of the Structure of Indites on Ion-Exchange Processes Between Ionies and Escrelyte Solutions Berlin, A. A., B. L. Mingon'kir, and V. P. Parini. (USS). From and Properties of Some Aromatic Polymers	A. I. P. LOSSY, A. S. edowa, and Lu Esten Jainer, Jainble Copolymers of St. id). Thermal Stability nd.	
FHASE I International symposium 1960.	Merbdunarodnyy simp Realty, 14-18 14 Serialya III. Chemistry Sold Summaries) Social 50,000 e Tech. Rd.: P. S. Ka	PURPOS: This book is intended meritation reactions and the compounds. COUNTRACE: This is Section III of the papers on macromolecular the papers on macromolecular the spents of seal with the kinetic the synthesis of special-purpose thange polymerization reactions of high molecular compounds. In the synthesis of the molecular compounds. Macromolecular compounds. Habek, T. I. and J. Konnider (Presont-Purmander) de laboral de presont-Purmander (Factors of the Macromolecular compounds. Habek, T. I. and J. Konnider (Presont-Purmander) de leasen	Alexandru, L., M., Cranockyl, and Authorical, A. Tar., Cranockyl, and Authorical, A. Tar., Cranockyl, C. Tar., Cranockyl, C. Tar., Cranockyl, C. Tar., C. Ta	wolker, Z./f. Ho action of Areastic genterates, H. d. B. Espacements Frope. Sentender of Prope. Sentender of Prope. Sentender Frope. Sentender in A. and J. Gabek. J., and J.	Exchange Reside Asiro Co Saidde R. M. (USSR). Saidde R. M. (USSR). STERCEIF OF IGNICAS ON IONIES AND ELECTORY OF PRODUCTOR A. M., B. I. III	Machanananan Re-V Machanananan G. Werdon Machanananananan Mater Exchange Resina	
				*			

Chloromethylation of Copolymers of Vinylarematic Compounds

5/786 \$/064/59/000/07/006/035 B005/B123

of chloromethylation to the same extent. If the catalyst exceeds 75% of weight of the styrene compounds in the copolymer, the yield is not increased (Fig 2). The authors applied the Blanc reaction also to the chloromethylation of cross-linked copolymers containing condensed aromatic rings. The chloromethylated products of various copolymers of styrene and vinylnaphthalene were used for the production of insoluble quaternary ammonium bases that are important as anion-exchange resins. These quaternary ammonium bases have a swelling capacity in water that differs with the structure of the original copolymer. Thus it becomes possible to apply the chromatographic method of "ion-sieves", that up to now has only been used for separating cations, to the separation of anions as well. Table 4 shows the most important characteristics of the strongly basic "anionsieves" obtained by the authors. There are 3 figures, 4 tables, and 11 references, 5 of which are Soviet.

ASSOCIATION:

Moskovskiy khimiko-tekhnologicheskiy institut imeni

D. I. Mendeleyeva (Moscow Institute of Chemical Technology

Card 3/3 ___imeni D. I. Mendeleyev)

62736

Chloromethylation of Copolymers of Vinylaromatic Compounds

\$/064/59/000/07/006/035 B005/B123

polymer. The authors found out that the degree of cross-linking during the chloromethylation of linear copolymers of styrene is reduced with an increasing amount of aliphatic residues (that cannot be chloromethylized). Table 1 shows the results of chloromethylized methylation of copolymers in styrene with 1,3-butadienes depending on the number of styrene molecules in the polymer. In further experiments the Blanc reaction was applied to the chloromethylation of three copolymers of styrene with various degrees of cross-linking (diene components: divinylbenzene, diallyl maleate, ethylene glycol-dimethacrylate). Table 2 and figure 1 show the results obtained (influence of the diolefin structure upon the degree of chloromethylation and the period of reaction. The content of chlorine in the copolymers, after a certain period of chloromethylation (in all cases investigated 8-10 hours), reaches a maximum and then declines again. Of the three polymers investigated the copolymer of styrene with diallyl maleate showed the maximum chloromethylation under the same conditions. Table 3 shows the influence of catalysts upon the degree of chloromethylation. ZnCl2, SnCl2, and SnCl4 increase the yield

Card 2/3

5.3831 5 (3), 5 (1)

AUTHORS:

Trostyanskaye, (e. d.,

Makarova, S. B., Tevlina, A. S.

TIPLE:

Chloromethylation of Copolymers of Vinylaromatic Compounds

PERIODICAL:

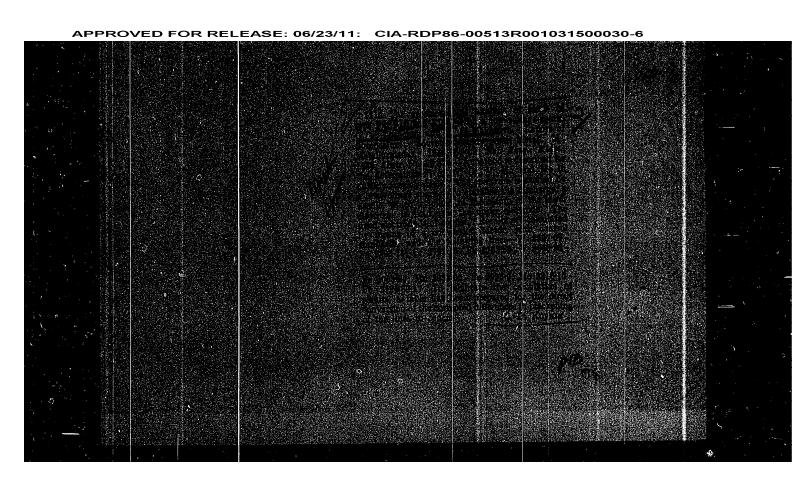
Khimicheskaya promyshlennost', 1959, Nr 7, pp 577 - 580 (USSR)

ਤ/064/59/000/07/006/035 B005/B123

ABSTRACT:

In the introduction to the present paper the authors discuss some methods described in publications of the chloromethylation of polymers and copolymers in styrene /(Refs 5-10). In all these methods chloromethyl ether or dichloromethyl ether were used as reagents. The use of these reagents in industrial syntheses is not advisable as they are very volatile and produce poisonous vapors. The authors investigated the conditions under which the Blanc reaction can be applied to a chloromethylation of various copolymers in vinyl-aromatic compounds. In the Blanc reaction formaldehyde and hydrochloric acid are used as reagents instead of chloromethyl ether. Ordinary zinc chloride usually serves as catalyst. When applying this reaction to the chloromethylation of copolymers of styrene, however, intermolecular secondary reactions are caused by the great mobility of the chlorine atom in the chloromethyl group, that lead to a cross-linking of the

Card 1/3



	of W. Greenward (Acre. Mair, & 17, 442, 180) or projections of actions of the system, should be jurished excitible and comparisons of the system, should be jurished excitible and the comparisons of the system.	ding compastions watchies. Orig.
	ngles, Estgune, and Likhle. Inextus, problem Policy aloysterity. AN may SER (Inetibit	
	OF THE PROPERTY OF THE PROPERT	ODE MAR
Nesita a si		

		College Religion (F) (1700) (etc.) (familiae do cue go leg genriè (d. 616-19)				
,					the (one of this always	•
	2				ericalită deposeții dibi 1806 (Credol VIII)	
	esselvinetsiik tus tehtepusei	compensed and correct serials are liquid places	(leg leg of the land	Bernadon), sac 9	e contact-wetting	
s Special						
	Totaruet La Asserbación	APBOLEWS		E N	$\frac{1}{T}$	
		ing the continuousem	oe-ou outube 116 lina al(9: 60	maan kriibinabil Galesagaah pila Maara	value of the Goni Nipe wor- Geography	
			oliyatining yalib Sanara yalib		nome (appropriation) Abustistic Original	_

(Steel-Spectra) angering liquid thuse sintering in migrators in ket-stron and image to the configuration of t (accepted motal/accepts, ac., 1, 1965, 45-6); ngango aliby, mokel alloy, tron alloy, copper alloy, aintered alloy, Gastillion is given of most logsed ito and start cos-difference one studies of the metallion of the constitution of W.M. Fe and W.M.-Chi Elloys. APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500030-6

DZYKOVICH, 1. Ya.; MAKAROVA, R.V.; TEODOROVICH, O.K.; FRANTSEVICH, I.N. Distribution of elements during the formation of ceramic metal alloys in the system W = Ni = Fe. Porosn. met. 5 no.8;62=69 Ag 165. (MIRA 18:9) 1. Institut elektrosvarki imeni Patona AN UkrSSR i Institut problem materialovedeniya AN UkrSSR.

MAKAROVA, R.V.; TEODOROVICH, O.K.; FRANTSEVICH, I.N. The coalescence phenomenon during liquid phase sintering in systems tungsten - nickel - iron and tungsten - nickel copper. Porosh. met. 5 no.7:45=52 Jl 165. (MIRA 18:8) 1. Institut problem materialovedeniya AN UkrSSR.

L 1679-66

ACCESSION NR: AP5020772

sintered in a furnace at 1450 C for 2 hours, with rapid cooling. One face of each sample was polished for examination. Hesults of experiments show that, in tungsten-nickel iron alloys, the introduction of iron has an effect on the mutual solubility of tungsten and nickel. In alloys containing iron, in comparison with tungsten nickel alloys, there is observed a contraction of the heterodiffusion front tungsten nickel alloys, there is observed a contraction of the heterodiffusion front. The distribution of iron with respect to the tungsten grain remains constant, independent of the composition of the alloy, and more uniform in spite of the solubility which is five times greater than the solubility of nickel in alloys with an identical ratio of elements. Orig, art. has: 4 figures and 2 tables

ASSOCIATION: Institut elektrosvarki im. E. O. Patona AN USSR (Electric Welding Institute) AN USSR (Institute problem materialovedeniya AN USSR (Institute for Problems of Materials Processing) AN UCSSR)

SUBMITTED: 06Oct64

ENCL: 00

SUB CODE: MM

nr ref sov: 003

OTHER: 000

- H

EMP(e)/EMT(m)/T/EMP(t)/EMP(k)/EMP(z)/EMP(b)/EMA(c) IJP(c) L 1679-66 ACCESSION NR: AP5020772 JD/W/JO UR/0226/65/000/008/0062/0069 AUTHOR: Dz kovich, I. Ya.: Makarova, R. V.: Teodorovich, O. K. Frantsevich, I. N. 44/55 TITLE: Distribution of elements in forming metal ceramic alloys of the tungstennickel-iron system SOURCE: Poroshkovaya metallurgiya, no. 8, 1965, 62-69 TOPIC TAGS: metal ceramic material, tungsten base alloy, nickel containing ABSTRACT: Samples of tunsten-nickel-iron alloys of the following composition were studied: W-10Ni(nickel 9.8%, remainder tungsten); W-7Ni-3Fe (7.2% nickel, 2.95% iron, remainder tungsten), W-5Ni-5Fe (5.0% nickel, 5.15% iron, remainder tungsten), and W-3Ni-7Fe (3.0% nickel, 7.0% iron, (remainder tungsten). Powders were prepared from reduced tungsten powder with a grain size of less than 40 microns and an aqueous solution of the nitrogen salts of nickel and iron and were reduced in a hydrogen atmosphere at 450 and 850 C. They were pressed at 20 kn/cm² ir to samples with a diameter of 10 mm and a height of 10 mm and

MAKAROVA, R. V.; PILYANKEVICH, FEDOROVICH, O. K.; FRANTSEVICH, I. N. "Vorgange beim sintern mit flussiger phase in den systemen W-Ni-Fe und W-Ni-Cu." report submitted for 3rd Intl Conf on Powder Metallurgy, Eisenach, E. Germany, 13-15 May 1965. Kiev, UkSSR.

Oxidation of alloys of titanium ... 28876 S/180/61/000/004/014/020 E021/E580 ASSOCIATION: Institut metallokeramiki i spetsial'nykh splavov AN UkrSSR (Institute of Cermets and Special Alloys SUBMITTED: June 1, 1960 89 10 Z CM 900° 49×103 200 800 200° 800 750° 150 700° 575 500° Card 3/5 Fig.2

Oxidation of alloys of titanium ... s/180/61/000/004/014/020 E021/E580

oxidation. The alloy containing 70% Zr oxidises more uniformly. Fig. 3 shows graphs of log K against $1/T \times 10^3$, where K is the constant of the parabolic law of oxidation and T is the absolute temperature. The curves are 1 - Ti + 30% Zr, 2 - Ti + 70% Zr, 3 - Ti + 90% Zr, 4 - Zr, 5 - Ti, 6 - Ta + 10% Zr, 7 - Ta + 30% Zr, 8 - Ta + 70% Zr, 9 - Ta, 10 - Zr. oxidation (after 1 hour) against Zr content (in wt.%) for Ti-Zr and Ta-Zr alloys. Thus, alloying of Ti or Ta with Zr results in a sharp decrease in resistance to oxidation, especially at temperatures above 600°C. There are 5 figures, 1 table and 15 references: 5 Soviet and 10 non-Soviet. The English-language references read as follows: Ref.5: Jenkins, A.E. The Study of Oxidation of Titan and its Alloys at High Temperatures. J. Inst. Metals, 1954-55, 84, 1; Ref.9: Mallet, M.W., Albrecht, W.M. The High Temperature Oxidation of two Zr. Sn Alloys. J. Electrochem. Soc. 1955, 102, 407; Ref.10: Wallwork, G.R., Jenkins, A.E. Oxidation of Titanium, Zirconium and Hafnium. J. Electrochem. Soc., 1959, 106,10; Ref. 14: Wasilewski, R.J. The Solubility of Oxygen in and the Oxides of Tantalum, J. Amer. Chem. Soc., 1953, 75, 1000.

Card 2/5

-RDP86-00513R001031500030-6

1496,1454, 2208 18.8300

28876 s/180/61/000/004/014/020 E021/E580

AUTHORS:

Voytovich, R.F. and Makarova, R.V. (Kiyev)

TITLE:

Oxidation of alloys of titanium and tantalum with

zirconium at high temperatures

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Otdeleniye tekhnicheskikh nauk, Metallurgiya i toplivo, 1961, No.4,

TEXT: Alloys were prepared from metals of high purity (Ti 99.99%, Zr - 99.99%, Ta - 99.9%). The kinetics of oxidation were studied by continuous weighing for 12 hours. The measured values of the oxidation (g/cm²) of TiZr and TaZr alloys are plotted in Fig.2; the top three graphs (a - B) apply to TiZr alloys, the bottom three graphs (? - e) apply to TaZr alloys. The zirconium contents, in%, were, respectively, 30 (graph a), 70 (graph 6), 90 (graph β), 10 (graph 2), 30 (graph δ) and 70 (graph e). The alloy containing 90% Zr is more oxidation resistant than the others. There is a sharp increase in oxidation rate above 600°C. At lower temperatures, the scale adheres well to the metal. The alloy of low Zr content oxidises only slowly up to 600°C. Above this temperature, there is a sharp increase in

PEREL'SHTEYN, N.L.; MITGARTS, L.V., kand. tekhn. nauk; MAKAROVA,

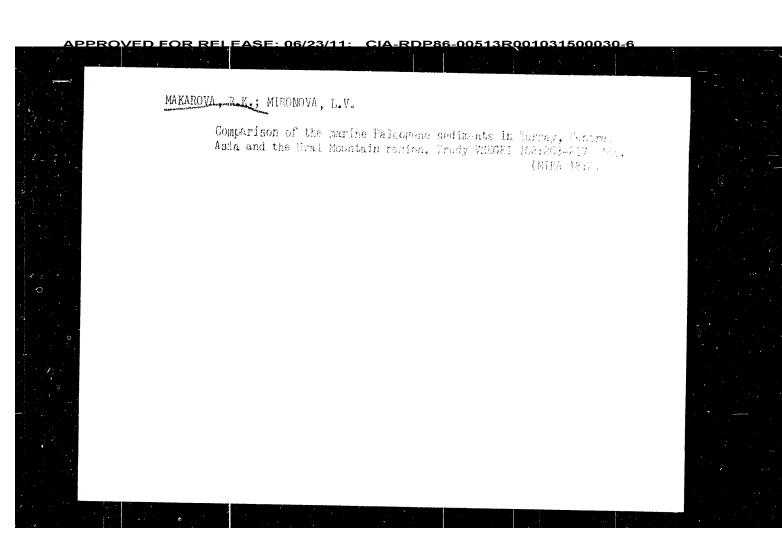
R.P., red.; SVETOZARSKIY, K.V., red.

[Manual on the manufacture of prestressed reinforced-concrete segmented girders from linear elements] Rukovodstvo po izgotov-lenit; sbornykh shelezobetonnykh predvaritel'no napriazhennykh segmentnykh ferm iz lineinykh elementov. Moskva, TSentr. biuro tekhn. informatsii, 1961. 67 p. (MIRA 15:3)

1. Russia (1917- R.S.F.S.R.) Ministerstvo stroitel'stva. Tekhnicheskoye upravleniye.

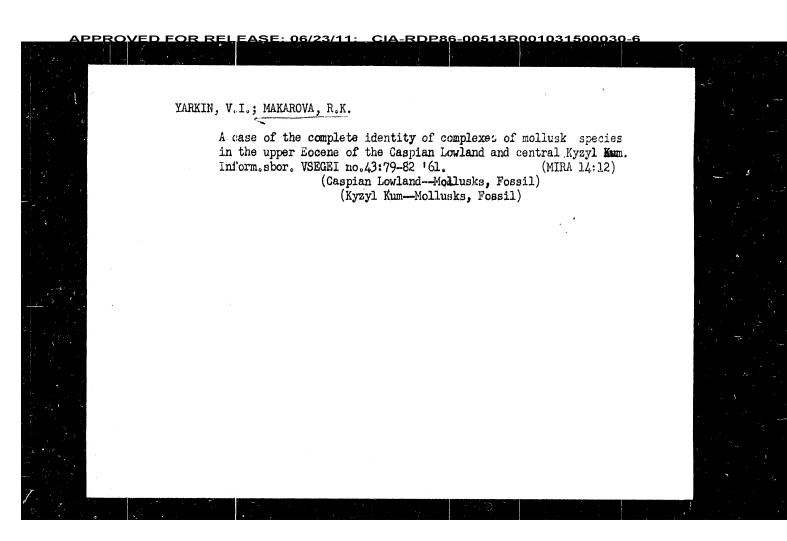
(Girders) (Prestressed concrete construction)

KOROBKOV, I.A.; MAKAROVA, R.K. Stratigraphy and faunal characteristics of Paleogene section in the Kyzyl Kum and the southern part of the Ural Mountain region. Trudy VSEGEI 102:236-254 '64. (MIRA 18:2)



KOROBKOV, I.A.; MAKAROVA, R.K. New pteropod mollusk from the Upper Eccene deposits of the U.S.S.R. Paleont.zhur. no.4:83-87 '62. (MIRA 10 (MIRA 16:1) 1. Leningradskiy gosudarstvennyy universitet imeni Zhdanova.

(Aral Sea region—Cavoliniidae, Fossil)



KCROBKOV, I.A.; MAKAROVA, R.K.

Becent data on boundary horizons between Eccene and Oligocene deposits in the southern part of the Aral Sea region. Dokl.AM SSSR 134 no.4:902-904 0 '60. (MIRA 13:9)

1. Leningradsky gosudarstvennyy universitet im. A.A. Zhdanova. Predstavleno akad. A.L. Yanshinym.

(Aral Sea region--Geology, Stratigraphic)

On the Stratigraphy of Paleogene Sediments of the Lower Course of the Aru-

horizon there (Ref 3), as well as with Soviet Central Asia. In the rocks of the lower part of Upper Eccene sediments, bored near the village Chimbay, two left shell-halves of a new type were found: C h l a m y s c i s a r a l i c a s p. n o v. (Fig 1: 10,11). Also other mollusks from this site are shown (Fig 1). No related forms of the new species have hitherto been known. The materials are kept in the Muzey kafedry istoricheskoy geologii of the University mentioned in the Association. There are 1 figure and 3 Soviet references.

ASSOCIATION:

Leningradskiy gosudarstvennyy universitet im. A. A. Zhdanova (Leningrad State University imeni A. A. Zhdanova

PRESENTED:

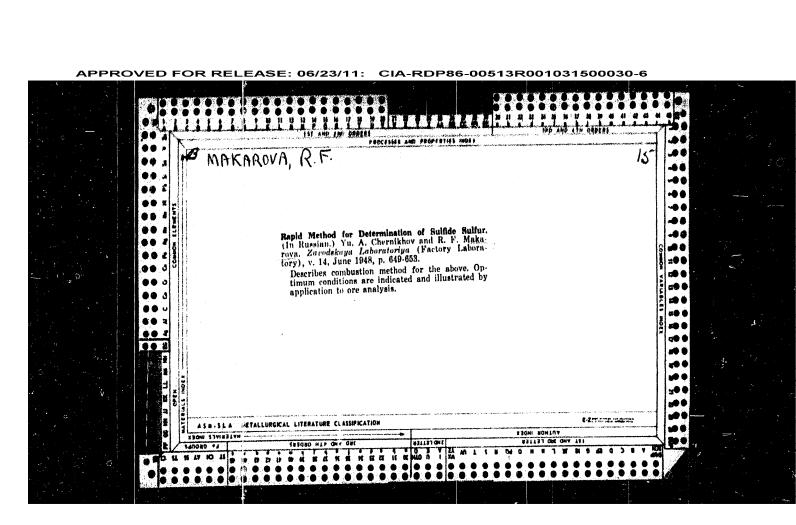
February 28, 1959, by A. L. Yanshin, Academician

SUBMITTED:

February 27, 1959

Card 2/2

CIA-RDP86-00513R001031500030 sov/20-127-1-45/65 Korobkov, I. A., Makarova, R. K. 3(5) On the Stratigraphy of Paleogene Sediments of the Lower Course AUTHORS: of the Amu-Dar'ya in Connection With New Mollusk Findings (K stratigrafii paleogenovykh otlozheniy nizov'yev Amu-Dar'i v TITLE: svyazi s novymi nakhodkami mollyuskov) Doklady Akademii nauk SSSR, 1959, Vol 127, Nr 1, pp 166-167 PERIODICAL: (USSR) The authors investigated mollusk shells at the University mentioned in the Association; these materials had been collected ABSTRACT: at the Amu-Dar'ya lower course by a paleontological-stratigraphical team of the Uzbekskoye Geologicheskoye upravleniye (Usbek Geological Administration) both in borehole cores and in natural exposures. By way of an introduction, a description is given of the Paleogene sediments here and at the south and west banks of the Aral Sea (up to 225 m thick). They rest transgressively on chalk from which they are separated by a "gravelite" intermediated layer. (Ref 3). In the mollusk- and foraminiferal fauna found, parallels are drawn to the strata with Lyrolepis caucasica (Ref 1) and with the Beloglinskiy Card 1/2



Emission properties of thorium- ...

S/109/62/007/009/011/018 D409/D301

has lower defficiency and that the secondary-emission coefficient of niobium-base cathodes is slightly higher than that of tantalum-base cathodes. 2) Rhenium can hardly serve as a base material, in particular owing to its poor ductility. However, rhenium alloys (Re-V and Re-Lo) which have very suitable mechanical properties, could serve as base materials for cathodes. This would facilitate the preparation of the cathodes (vacuum annealing could be replaced by hydrogen annealing) and such cathodes could be more easily controlled. There are 4 figures and 1 table. The most important English-language reference reads as follows: C.T. Sims, G.B. Gaines, Rhenium for electron tubes. Proc. 4-th National Conference Tube Techniques, New York University Press, 1959.

SUBMITTED: December 29, 1961

Card 3/3

Emission properties of thorium- ...

S/109/62/007/009/011/018 D409/D301

tion, the current-voltage curves for well-activated cathodes were plotted for various temperatures. A figure shows the emission-current density as a function of the temperature of thermally activated ThO2 and Y2O3 - coated cathodes with rhenium- and niobium base. The activation temperatures of the investigated types of cathodes were compared with those of cathodes with tantalum- and molybdenum base. It was found that the emission-current density for cathodes with rhenium base was slightly higher than that of cathodes with tantalum base. The dependence of the secondary-emission coefficient on activation temperature is plotted for all the types of investigated cathodes. A study of the effect of oxygen on cathode emission, showed that the poisoning of cathodes with rhenium base is reversible, the emission being restored quite readily, at working temperatures already; this compares favorably with tantalumbase cathodes, where the poisoning is irreversible. Cathodes with niobium base react to oxygen in the same way as tantalum-base cathodes. It is concluded that: 1) In a limited temperature range (up to 1850°K approximately), it is advantageous to replace tantalum by niobium as a base material; the reasons for this are that niobium

Card 2/3

9.3120 26.2531 S/109/62/007/009/011/018 D409/D301

AUTHORS:

Kaganovich, M.V., and Makarova, R.A.

TITLE:

Emission properties of thorium- and yttrium oxides on

rhenium and niobium bases

PERIODICAL:

Radiotekhnika i elektronika, v. 7, no. 9, 1962,

1579 - 1584

TEXT: The authors investigated the thermal activation, the thermionic and secondary-emission properties, and the poisoning of thorium and yttrium oxide cathodes with niobium and rhenium base. The obtained data are compared with similar data for cathodes with tantalum and molybdenum base. The cathode temperature was measured by means of an optical pyrometer. Each measurement was made on 6-8 cathodes of the investigated type. The thermal activation of the cathodes was studied as follows: The cathode temperature was raised stepwise by 50-100°K. After a delay of 20-40 minutes at each step, the emission current was measured at a temperature of 1350°K, or the curve secondary-emission coefficient versus primary-electron velocity, was plotted for a temperature of 1100-1200°K. In addicard 1/3

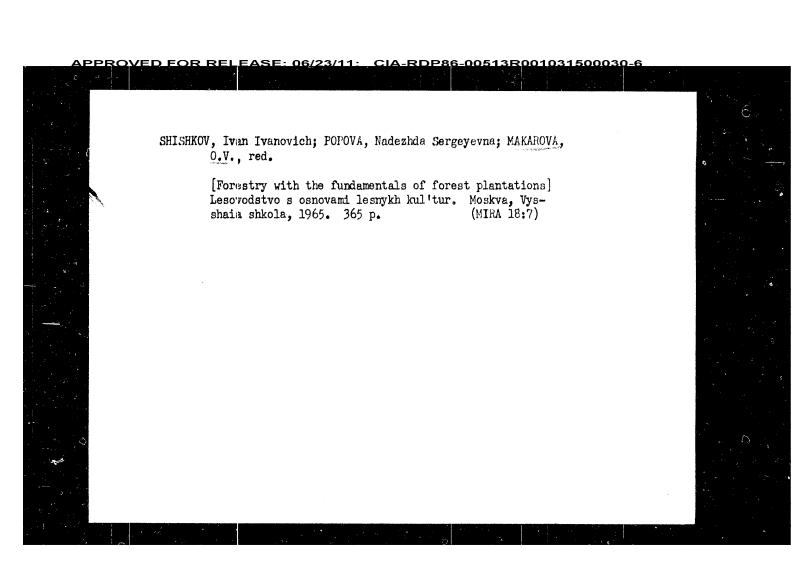
MAKAROWA, P.Te.

Treatment of hypertension by a combination of radon baths and Rauwolfia preparations. Shor. trud. Kursk. gos. med. inst. no.13: 356-160 '58. (MIRA 14:3)

1. In sanatoriya Mar'ino Kurskoy oblasti i kliniki propedevtiki vmutrennikh bolezney (zav. - prof. M.A.Cherkasskiy) Kurskogo gosuklarstvennogo meditsinskogo instituta.

(HIPERTENSION) (RADON—THERAPEUTIC USE)

(RAUWOLFIA)



L 32073-66 EWF(m)/T/EWP(t)/ETI IJP(c) DS/JD/WW/JG ACC NR: AP6014063 SOURCE CODE: UR/0294/66/004/002/0189/0195

AUTHOR: Solov'yev, A. N.; Makarova, O. P.

12.

ORG: Institute of Heat Physics, Siberian Department, Academy of Sciences, SSSR (Institut teplofiziki Sibirskogo otdeleniya Akademii nauk SSSR)

TITLE: Investigation of sodium and potassium surface tension

SOURCE: Teplofizika vysokikh temperatur, v. 4, no. 2, 1966, 189-195

TOPIC TAGS: liquid metal, surface tension

ABSTRACT: The surface tension of liquid sodium and potassium was determined up to 1000°C and 800°C, respectively. The measuring apparatus is described in detail. A thin flat plate insertion into the liquid metal was used as the most direct method to make these measurements. The apparatus was tested with other liquids for calibrations and experimental checks. About 1% deviation from accepted data was achieved. Some effect of impurities in the tested metals was noted and resulted in 5% to 8% differences in measured values of the tension when these measurements were taken just after melting and a few hours after melting. The temperature dependence of the surface tension is shown graphically and compared with results of other workers and some of the differences are discussed. Orig. art. has: 5 figures, 2 tables.

SUB CODE: 20/// SUBM DATE: 12Mar65/ ORIG REF: 002/ OTH REF: 006

Cord 1/1/20 Liquid Metal UDC: 532.6:546.3

L 18742-66 ACC NR. AP502 L922 0 the following table. T, °C T, °C T, *C 212.4 215.5 220.7 228.5 240.4 246.5 256.8 267.1 4740 4880 5460 6370 7320 7870 165.0 184.7 201.8 215.8 226.6 1740 1830 2220 2480 2960 2000 3000 4000 5000 6000 159.5 161,0 169,6 176,2 182,7 3150 186.0 7870 246.5 3580 193.8 8910 256.8 4140 202.2 10160 267.1 4270 207.2 11120 278.3 237.2 9000 10000 257.3 267.1 11000 276.8 Surface tension was calculated according to the formula $d = \frac{g(txdl + F)}{2(t+x)}$ where t, x = width and length of the plate, 1x = submersion depth, d = density of the metal and F = force. The interpolation line drawn from the data is given by the equation: $\sigma = 202-0.91($-98).$ The mean square deviation from this line is 1.47%. Orig. art. has: figures, l'table. ORIG REF: 002/ OTH RBF: 005 SUB CODE: 11, 20/ SUBM DATE: 23Mar65/

1 167/2-66 RW (m)/EPF(n)-2/EWA(d)/T/EWP(t) LJP(e)
ACC NR: AP502 L922 SOURCE CODE: UR/ P(e) JD/W/JG UR/0207/65/000/004/0174/0176 ACC NR. AP502 L922 Kiriyanenko. A. A. (Novosibirsk); Makarova, O. P. (Novosibirsk); Romanov, V. D. (Novosibirsk); Solov'yev, A. N. (Novosibirsk) ORG: none TITLE: Experimental investigation of surface tension in liquid sodium SOURCE: Zhurhal prikladnoy mekhaniki i tekhnicheskoy fiziki, no. 4, 1965, 174-176 TOPIC TAGS: surface tension, Lineta sodium, liquid metal ABSTRACT: An experimental apparatus was built to measure surface tension in liquid sodium at high temperatures. A block diagram and description of the apparatus are given. Pure grade sodium was fed into a crucible (preheated to 400-500°C) filled with pure helium. The experiment was conducted in the temperature range of 100-937°C. Thermocouples were used to measure the temperature of the crucible. The floating plate used in the experiment was made of 1Khl8N9T stainless steel K It was found that immediately after melting, the values of surface tension were about 5-8% lower than those obtained after longer periods (1-1.5 hrs). Measurements of surface tension in liquid sodium are given in Card 1/2

CIA-RDP86-00513R001031500030-6

KAPLUN, A.B.; MAKAROVA, O.P.; SOLOV'YEV, A.N. New vibration viscosimeters. Zav. 1ab. 30 no.1:100-102 164. 1. Institut teplofiziki Sibirskogo otdeleniya All SSSk.

MAKAROVA, C.P. Result of the use of iontophoresis of zinc in treating mycotic paronychia and onychia. Vest. derm. i ven. 32 no.6:29-31 N-D '58. (MIRA 12:1) 1. Is otdeleniy fizioterapii i mikologii (nauchnyy rukovoditel' prof. A. M. Ariyevich) Klinicheskoy kozhno-venerologicheskoy bol'nitsy imeni Korolenko. (NAIIS, dis. mycotic onychia. ther., zinc. iontophoretic admin (Rus)) (PARONYCHIA, ther. mycotic, ther., zinc, iontophoretic admin. (Rus)) (ZINC. ther. use mycotic onychia & paronchia, iontopheretic admin. (Rus))

SAZONOV, S.V., red.; MAKAGOVA, O.K., red.

[Soviet trade; a statistical abstract] Sovatchels torgovita; statisticheskii abornik. Nockva, Statisticheskii alvovita (kulik 17:9)

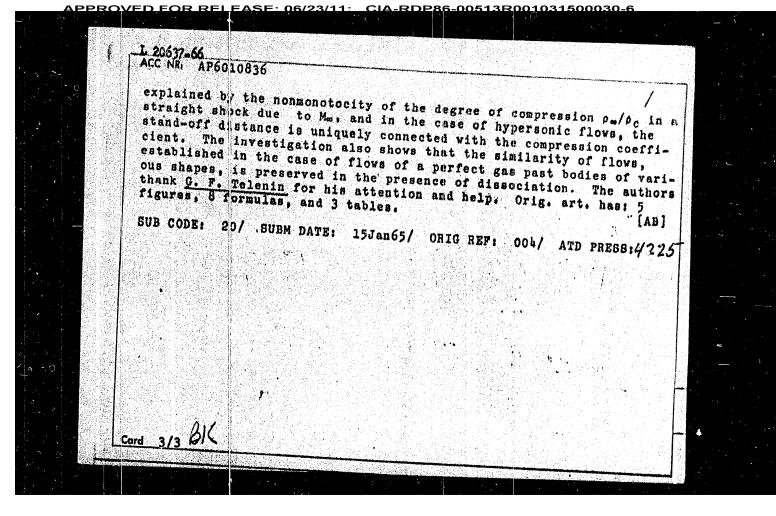
1. Aussia (1923- U.S.S.E.) TSontral Tope statistichesk ye upravleniye. 2. Zamostitel' nachal'adka TSontral Tope statistichesk go upravleniya SSA (for Sazarov).

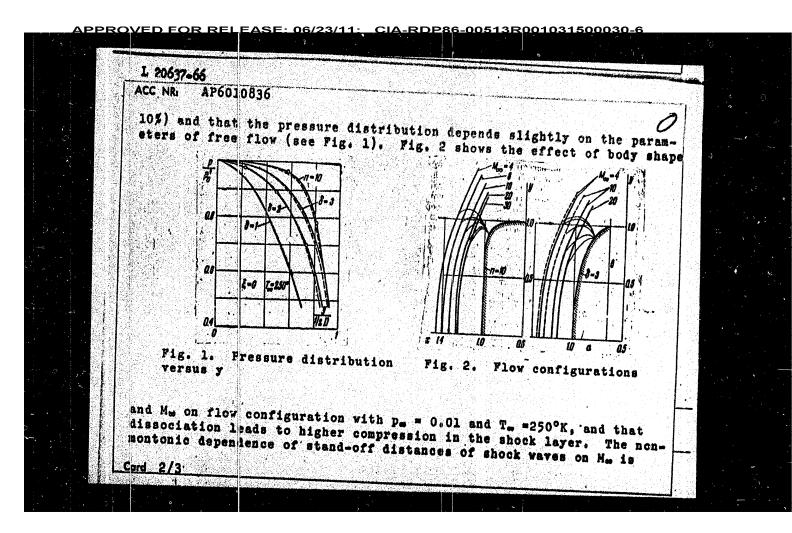
VOLODARSKIY, L.M., red.; HUTOV, A.S., red.; MOSKOVKINA, A.S., red.; SHCHADILOV, N.M., red.; KAKAROVA, O.K., red.; FROLOVA, M.P., red.

[Industry of the U.S.S.R.; statistical abstract] Promyshlemnost' SSSR; statisticheskii sbornik. Moskva, Izd-vo "Statistika," 1964. 494 p. (MIRA 17:6)

1. Russia (1923- U.S.S.R.) TSentral'noys attatisticheskoys upravleniya. 2. Zamestitel' nachal'nika TSentral'nogo statisticheskogo upravleniya SSSR (for Volodarskiy).

TISHIN, Sergey Dmitriyevich; TISHIN, Saveliy Sergeyevich; MAKAROVA, O.K., red.; KAPRALOVA, A.A., tekhn. red. [Involution tables with bases from 0.00001 to 1000 and exponents from 0.01 to 4.] Tablitsy vozvedenila v stepen' pri osnovanilakh ot 0,00001 do 1000 i pokazateliakh ot 0,01 do 4. Izd.3., dop. Moskva, Gosstatizdat, 1963. 399 p. (MIRA 16:12) (Mathematics--Tables, etc.)





L 20637-66 EVT(1)/EWP(m)/EWT(m)/EWA(d)/T/EWA(1) WW/JW/WE ACC NR. AP6010836 SOURCE CODE: UR/0421/66/000/001/0016/0021 AUTHOR: Gilinskiy, S. M. (Moscow); Makarova, N. Ye. ORG: none 67 66 TITLE: Calculating supersonic air flows physicochemical transforms long taken into account past blunted bodies Source: An SSSR. Izvestiya. Mekhanika zhidkosti i gaza, no. 1, 1966, 16-21 TOPIC TAGS: supersonic aerodynamics, supersonic flow, detached shock wave, equilibrium flow, inviscid flow, shock wave, dissociation ABSTRACT: Supersonic air flows past blunted axisymmetrical bodies with a detached shock wave are investigated under the assumption of equilibrium physicoshemical transformations. Air flows past ellipsoids of revolution with eccentricities $\delta = b/a = 1$, 2, 3 and a body with a forward end described by the equation $|x|^{n} + |y|^{n} = 1$ with n = 10 were calculated on a computer by means of the Gilinskiy-Telenin-Tin yakov method over a wide range of flow parameters: Mo, from 4 to 50; pressure pm, from 10-, atm to 1 atm; and temperature T, from 200° to 300°K The results presented in the tables and graphs for air and a perfect gas show that dissociation has little effect on pressure (about 5 to Card 1/3

PROKOPCHUK, B.I.; SERGIYENKO, V.M.; MAKAROVA, N.V.

Diamonds in the northeastern part of the Siberian Platform (Lena Valley diamond-bearing area). Dokl. AN SSSR 354 no. 3: 610-612 Ja '64. (MIRA 17:5)

1. Vsesoyuznyy aerogeologicheskiy trest. Predstavleno akademikom D.I.Shcherbakovym.

EASE: 06/23/11: CIA-RDP86-00513R001031500030-6 METLYAYEVA, N.G.; MAKAROVA, N.V. Dyeing sheepskin gray using vat dyes. Leg.prom. 16 no.5:32 My '56. (MLRA 9:8) (Dyes and dyeing--Fur) (Hides and skins)

SANDRIGATIO, N.F.; VASILITEN, M.V., prof., doktor tekin, newk;
GRACR, I.F.; USOV, F.M.; RYABOV, A.I.; ZHANTENIHOV, S.E.;
VOROSHLIN, G.I.; WAKAROVA, N.U., red.

[Accelerated development of strip mines and expansion of iron one mining; as practiced at the Sokolovke-Sarbay
Mining and Ore Dressing Combine] Foreirovannata podgotovka
kar'erov i razvitie dobychi z'eleznykh rud; na primere
Sokolovsko-Sarbaiskogo gorncobogatitel'nogo kombinata.
Sverdlovsk, Sredne-Ural'skoe gos. knizimoe izd-va, 1964.
115 p. (MIRA 18:6)

VASIL'YEV, M.V.; V'YUKHINA, A.S.; DOHOMENKO, Ye.P.; ZEBZIYEV, K.V., kend. tekhm. nauk; LATS, V.M.; PALFENOV, G.V.; POPOV, V.Y.*, TROITSKIY, D.P.; PALDEYEV, E.V.; TSYETAYEVA, Z.N.; ZURALLOV, L.Y.*, kand. tekhm. nauk, otv. red.; MAKAKOVA, N.W., red.; PAL'MIN, M.Z., tekhm. red.

[Evaluation and the prospects of the development of the mineral resources for ferrous metallurgy in Chelyabinsk area] Otsenka i perspektivy razvitila syr'evoi bazy chernoi metallurgii Cheliabinskogo raiona. Sverdlovsk, AN SSSK, 1964. 67 p.

(MIRA 17:4)

BORISOGLEBSKIY, B.N., kand. tekhn. nauk, red.; VINOGRADOV, Yu.M., kand. tekhn. nauk, red.; GALITSKIY, B.A., red.; GOFYAINOVA, A.V., kand. tekhn. nauk, red.; ZHE EBTSOV, A.N., red.; KORETSKIY, I.M., red.; MAKAROVA, N.S., red.; MOPDOVSKIY, S.I., kand. tekhn. nauk; SALAMATOV, I.I.,

doktor tekhn. nauk; SHVARTS, G.L., kand. tekhn. nauk, red.; YUKALOV, I.N., kand. tekhn. nauk, red.; YUSOVA, G.M.,

CIA-RDP86-00513R001031500030-6

kard. tekhn. nauk, red.; VASIL'YEVA, G.N., red.

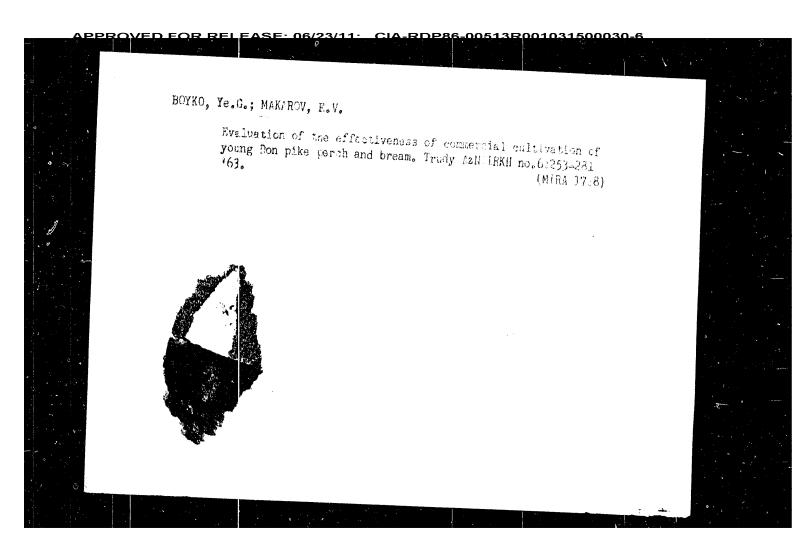
[Manufacture of filters in the U.S.S.R.; collection of reports at the united session of the scientific and technical councils of the All-Union Scientific Research Institute of Chemical Machinery, the Ukrainian Scientific Research Institute of Chemical Machinery and the technical council of the Ural Chemical Machinery Plant] Fil'trostroenie v SSSR; sbornik dokladov na ob"edinennoi sessii nauchnotekhnicheskikh sovetov Niikhimmasha, Ukrniikhimmasha i tekhnicheskogo soveta zavoda "Uralkhimmash." Moskva, Otdel nauchno-tekhn. informatsii, 1963. 107 p. (MIRA 17:12)

1. Nauchno-issledovatel skiy institut khimicheskogo mashinostroyeniya (for Borisoglebskiy, Mordovskiy).

AKSENOV, Petr Pavlovich, prof., doktor tekhn. nauk; Prinimali uchaetiye: MAKAROVA, N.S., kand. tekhn. nauk; PROKHOROV, I.K., dots.; TUKINA, Yu.F., dots.; PESOTSKIY, A.H., retsenzent; KHUDIN, A.S., retsenzent; BASKAKOV, Ye.D., otv. red.

[Technology of lumber] Tekhnologiia pilomaterialov. Moskva, Goslesbumizdat, 1963. 578 p. (MIRA 17:5)

MAKAROV, E.V. Evaluation of the survival of young sturgeons in Don hatcheries. Trudy VNIRO 56:141-170 *64. (MIRA 18: (MIRA 18:4) 1. Azovskiy nauchno-issledovatel'skiy institut rybnogo khozyaystva.



MAKAROVA, N. S.

Dissertation: "An Investigation of the Combined Installations for Stowage and for Dismantling Sawn Timber Stacks." Cand Tech Sci, Moscow Forestry Engineering Inst, 23 Jun 54. (Vechernyaya Moskwa, Moscow, 14 Jun 54.)

S0: SUM 318, 23 Dec 1954

ACC NR: AT7007280 (with a purity of 99%). After the precipitate is filtered off, the amine may be regenerated by addition of CaO, which combines with the sulfate radical to form CaSO_{li}. This may be removed, and the pure amine is ready for re-use in the process. Orig. art. has: 3 figures and 6 tables. SUB CODE: 11/ SUBM DATE: none/ ORIG REF: 006/ OTH REF: 002 Card 2/2

APPROVED FOR REL FASE: 06/23/11: CIA-RDP86-00513R001031500030-6

ACC NR: AT7007280

(N)

SOURGE CODE: UR/3249/66/000/013/0027/0034

AUTHORS: Zverev, L. V.; Petrova, N. V.; Murali, G. N.; Makarova, N. P.

ORG: none

TITLE: The use of water-soluble amines in treating tantalum-niobium materials

SOURCE: Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut mineral'nogo syr'ya. Mineral'noye syr'ye, no. 13, 1966. Obogashcheniye i pererabotka mineral'nogo syr'ya (Concentration and processing of minerals), 27-34

TOPIC TAGS: metallurgy, tantalum compound, niobium compound, amine

ABSTRACT: The authors have found that the use of oxalic acid or hydrogen peroxide in forming Ta and No complexes is unsatisfactory because of instability and other factors. The use of water-soluble amines is suggested. The present paper outlines the optimal conditions for leaching Nb and Ta from sulfate cake by using as complexing agents methylamine, monoethanolamine, and triethanolamine. Columbite concentrates were in the test. The technique found to be most satisfactory is the following. One part (by weight) of the concentrate is added to 2.5--3 parts of H₂SO₁, the mix is (by weight) of the concentrate is added to 2.5--3 parts of H₂SO₁, the mix is held for two hours at 350C. The material is then washed with water and treated with methylamine for 30 minutes at 40C. The Nb and Ta are now in solution and may be removed. Neutralization with a weak mineral acid precipitates Nb and Ta pentoxides

Card 1/2

ACC NR: AT7007279 may be effected by extraction with trioctylamine in kerosene, in a three-stage process. The final product contains 98.8% Ta₂0₅ and 0.203% Nb₂0₅. Orig. art. has: 9 figures and 8 tables. SUB CODE: 11, 07/ SUBM DATE: none/ ORIG REF: OOL/ OTH REF: OOL Card 2/2

ACC NR: AT7007279

SOURCE CODE: UR/3249/66/000/013/0016/0026

AUTHORS: Petrova, N. V.; Mural', G. N.; Makarova, N. P.

ORG: none

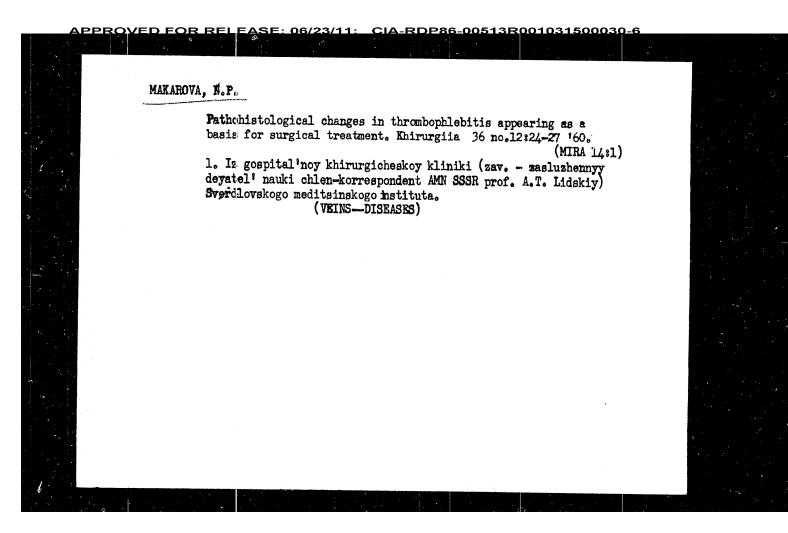
TITLE: Chemical treatment of columbite and microlite concentrates

SOURCE: Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut mineral'nogo syr'ya. Mineral'noye syr'ye, no. 13, 1966. Obogashcheniye i pererabotka mineral'nogo syr'ya (Concentration and processing of minerals), 16-26

TOPIC TAGS: metallurgy, tantalum compound, niobium compound, chemical separation

ABSTRACT: In recent years, tantalum has been extracted with increasing success from concentrates of nicbium minerals in which the Ta205:Nb205 ratio may be as low as 1:20. The present paper describes a laboratory experiment to extract ${\rm Ta_20_5}$ and ${\rm Nb_20_5}$ separately from columbite concentrates containing 43--46% of the combined oxides at a Ta205:Nb205 ratio of 1:10 to 1:13. One part concentrate (by weight) is mixed with three parts caustic soda and fused (at 7500 for 2 hrs). A dilute solution of NaOH is then used to wash the product, and Sn, Si, Ti, and W go into solution, leaving Nb, Ta, Fe, Mn. The Fe and Mn are dissolved by an acid solution of HCl and ${\rm H_2SO_L}$, and the Nb and Ta pentorides (98.5% pure) appear on roasting. By selective solution with H2SO4, the Ta2O5:Nb2O5 ratio may be increased from 1:13 to 2:1. Further purification

Card 1/2



MAKAROVA, N. P., Cand Led Sci -- (diss) "Clinic and operative treatment of thrombophlebitis," Sveralovsk, 1960, 13 pp (Sveralovsk State medical Institute) (KL, 40-60, 123)

CHUGUNOVA, N.I.; ASSMAN, A.V.; MAKAROVA, N.P. Growth and fatness dynamics in fishes as adaptive processes (based on experimental studies of carp in the Volga Delta). Trudy Inst. morf. zhiv. no.39:96-181 '61. (MiRn 14:11 (Volga Delta--Carp) (Adaptation (Biology)) (MIRA 14:31) MAKAROVA, M.P.

Some characteristics of fat accumulation in the carp. Trudy sov. Ikht. kom. no.13:397-401 '61. (MIRA 14:8)

1. Letteratoriya ikhtiologii Instituta morfologii zhivotnykh AN SSSR. (Carp) (Fat)

L 05204-57

ACC NR. AF7000759

TOPIC TAGS: silane, ammonolysis

SUB CODE: 07 / SUDM DATE: 1819r65 / ORIG REF: 004 / OTH REF: 009

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500030-6

I, 05204-67 EWP(;)/EWT(m) RM

ACC NR: AP7000759

SOURCE CODE: UR/0079/66/036/005/0895/0900

20

B

ANDRIANOV, K. A., KONONOV, A. M., MAKAROVA, N. N., Institute of heteroorganic Compounds, Academy of Sciences SSSR (Institut elemento-organicheskikh soyedineniy AN SSSR)

Reaction of Ammonolysis of Trialkyl(aryl)Chlorosilanes"

Moscow, Zhurnal Obshchey Khimii. Vol 36, No 5, 1966, pp 895-900

Abstract: The ammonolysis of methylethylphenylchlorosilane and methyldiphenylchlorosilane and the ccammonolysis of trimethylchlorosilane with dimethylphenylchlorosilane and methyldiphenylchlorosilane were studied. In the ammonolysis of methylchlylphenylchlorosilane, both in excess liquid ammonia and in a stream of gaseous ammonia, only dimethyldiethyldiphenyldisilazane is formed. In the ammonolysis of methyldiphenylchlorosilane, two products are formed: diphenylmethylaminosilane and dimethyltetraphenyldisilazane. The coammonolysis of trimethylchlorosilane with methyldiphenylchlorosilane in equimolar amounts does not lead to the formation of 1,1,1,3-tetramethyl-3,3-diphenyldisilazane, but proceeds separetly, forming hexamethyldisilazane and methyldiphenylaminosilane.

If the reaction is conducted in excess trinethylchlorosilane, which reacts readily with ammonia, the coarmonolysis product is formed. New organosilazanes and organoaminosilanes were produced and characterized. Pethyldiethylphenylsilane was described. Orig. art. has: 3 tables. [JPRS: 37,177]
Card 1/2

SOURCE CODE: UR/0413/66/000/002/0095/0096 INVENTOR: Andrianov, K. A.; Kononov, A. H.; Makarova, N. N. ORG: none Preparative method for polysilazanes. Class 39, No. 178108 SOURCE: Izobre eniya, promyshlennyye obraztsy, tovarnyye znaki, no. 2, 1966, 95-96 TOPIC TAGS: polysilazane, polymerization ABSTRACT: An Author Certificate has been issued for a preparative method for linear or spiro polysilazanes. The method involves polymerization at above 300C of alkylphenyldisilazanes and alkylphenyl (phenylamino) silanes in the presence of alkali. [BO] SUB CODE: 11/ SUBH DATE: 13Mar65/ ATD PRESS:4/98

APPROVED FOR RELEASE: 06/23	23/11: CIA-RDP86-00513R001031500030-6
TOTAL CONTRACTOR	$oldsymbol{\mathfrak{q}}$
ACCESSION NR2 A 5005598	
District T. Brid. A. On C. Grad. Street	own experimentally for Marural, isoprene, chloroprene
· · · · · · · · · · · · · · · · · · ·	
· · · · · · · · · · · · · · · · · · ·	
constantion value described.	Origi att, has: 7:figures. [SN]
and the second s	cheskoy khimil AN 985R, Kazan (I <u>nstitute</u> of Organic .
Inertific, AR ESIR)	SKIV institut in A. Ye. Arbuzove AN SSR (Chemical)
Simplering 2/346 at	ENGLA DO . SUE CODE: GC, NA - 1832
HOTEL ROLL SOFT	CTHERT DOZ ALESE ATD PRESEL 3191
· The state of the	

kali kaling any ampyaning iyer EM/W/DA \$/0190/65/007/002/0299/030**4** Saum, B. Aa., Gibanov, B. Fr. Adamovicky L. P., Dianov, M. P. ng major dan pigganak action of the molecular weight of Linear polymers by the thermo-Source: Veroko ctekulyarnyye soyedineniye. V. 7. no. 2. 1965, 299-104 Color Veller Co. imomechanical method, rubber: molacular weight repld and accurate method his been proposed for determining the of anotyphous linear polymers, pased on thermomechanical curves. set on the correlation of the temperature (T_c) of the completion of a ladenter into the specimen with the intrinsic viscosity (n) of specimen, and, hance, its molecular weight (M). Once a T_c versus two has been plotted, the molecular weight determination is reduced of a thermomechanical curve to find I and reading M from the calibration ing sa malang pengh The Melannes o ast to existing methods, the new method does not require the deter-glass-transition/flow and temperatures, 'It is applicable to polyhitch do not exhabit high elactic properties. The correlation

